

2FC1  
RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/881,976AOICE 1648  
#3DATE: 02/13/2002  
TIME: 21:13:56

INPUT SET: S36760.raw

This Raw Listing contains the General  
Information Section and up to the first 5 pages

RECEIVED

MAR 14 2002

TECH CENTER 1600/2900

## SEQUENCE LISTING

1  
2  
3 (1) General Information  
4  
5 (i) APPLICANT: Rath, Matthias  
6  
7 (ii) TITLE OF INVENTION: METHOD OF PRODUCING VACCINES FROM PROTEIN SIGNAL  
8 OLIGOPEPTIDES  
9  
10  
11 (iii) NUMBER OF SEQUENCES: 360  
12  
13 (iv) CORRESPONDENCE ADDRESS:  
14 (A) ADDRESSEE: INHOUSE IP MANAGEMENT  
15 (B) STREET: 280 Colorado Avenue  
16 (C) CITY: Palo Alto  
17 (D) STATE: California  
18 (E) COUNTRY: USA  
19 (F) ZIP: 94301  
20  
21 (v) COMPUTER READABLE FORM:  
22 (A) MEDIUM TYPE: Floppy Disk, 3.50 inch, 1.44MB Storage  
23 (B) COMPUTER: IBM PC COMPATIBLE  
24 (C) OPERATING SYSTEM: WINDOWS 95  
25 (D) SOFTWARE: MS WORD 6.0  
26  
27 (vi) CURRENT APPLICATION DATA:  
28 (A) APPLICATION NUMBER: 09/881,976  
29 (B) FILING DATE:  
30 (C) CLASSIFICATION:  
31  
32  
33 (vii) PRIOR APPLICATION DATA:  
34 (A) APPLICATION NUMBER: 09/232,186  
35 (B) FILING DATE:  
36  
37  
38  
39  
40  
41 (viii) ATTORNEY/AGENT INFORMATION:  
42 (A) NAME: ALI KAMAREI  
43 (B) REGISTRATION NUMBER: 37000  
44 (C) REFERENCE/DOCKET NUMBER: 10262-1US  
45  
46 (ix) TELECOMMUNICATION INFORMATION:

ENTERED

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/881,976ADATE: 02/13/2002  
TIME: 21:13:56

INPUT SET: S36760.raw

47 (A) TELEPHONE: 650-322-7371  
48 (B) TELEFAX: 650-322-7389  
49  
50  
51  
52 (2) INFORMATION FOR SEQ ID NO: 1:  
53  
54 (i) SEQUENCE CHARACTERISTICS:  
55 (A) LENGTH: 9  
56 (B) TYPE: amino acid  
57 (C) STRANDEDNESS: single  
58 (D) TOPOLOGY: linear  
59  
60 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 1:  
61  
62 Asp Val Tyr Ala Gln Glu Lys Gln Asp  
63 1 5  
64  
65 (2) INFORMATION FOR SEQ ID NO: 2:  
66  
67 (i) SEQUENCE CHARACTERISTICS:  
68 (A) LENGTH: 9  
69 (B) TYPE: amino acid  
70 (C) STRANDEDNESS: single  
71 (D) TOPOLOGY: linear  
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73 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 2:  
74  
75 Asp Val His Asn Gln Glu Lys Gln Asn  
76 1 5  
77  
78 (2) INFORMATION FOR SEQ ID NO: 3:  
79  
80 (i) SEQUENCE CHARACTERISTICS:  
81 (A) LENGTH: 6  
82 (B) TYPE: amino acid  
83 (C) STRANDEDNESS: single  
84 (D) TOPOLOGY: linear  
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86 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 3:  
87  
88 Glu Ile Arg Arg Glu Arg  
89 1 5  
90  
91 (2) INFORMATION FOR SEQ ID NO: 4:  
92  
93 (i) SEQUENCE CHARACTERISTICS:  
94 (A) LENGTH: 11  
95 (B) TYPE: amino acid  
96 (C) STRANDEDNESS: single  
97 (D) TOPOLOGY: linear  
98  
99 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 4:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/881,976ADATE: 02/13/2002  
TIME: 21:13:57

INPUT SET: S36760.raw

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101 Glu Asp Glu Met Gly His Pro Glu Ile Gly Asp  
102 1 5 10  
103  
104 (2) INFORMATION FOR SEQ ID NO: 5:  
105  
106 (i) SEQUENCE CHARACTERISTICS:  
107 (A) LENGTH: 11  
108 (B) TYPE: amino acid  
109 (C) STRANDEDNESS: single  
110 (D) TOPOLOGY: linear  
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112 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 5:  
113  
114 Glu Asp Glu Leu Gly His Pro Glu Lys Gly Asp  
115 1 5 10  
116  
117 (2) INFORMATION FOR SEQ ID NO: 6:  
118  
119 (i) SEQUENCE CHARACTERISTICS:  
120 (A) LENGTH: 11  
121 (B) TYPE: amino acid  
122 (C) STRANDEDNESS: single  
123 (D) TOPOLOGY: linear  
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125 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 6:  
126  
127 Ala Ser Leu Leu Ala Tyr Gly Met Pro Lys Glu  
128 1 5 10  
129  
130 (2) INFORMATION FOR SEQ ID NO: 7:  
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132 (i) SEQUENCE CHARACTERISTICS:  
133 (A) LENGTH: 8  
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135 (C) STRANDEDNESS: single  
136 (D) TOPOLOGY: linear  
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138 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 7:  
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140 Glu Pro Arg Lys Gln Asp Ala Asp  
141 1 5  
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143 (2) INFORMATION FOR SEQ ID NO: 8:  
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145 (i) SEQUENCE CHARACTERISTICS:  
146 (A) LENGTH: 8  
147 (B) TYPE: amino acid  
148 (C) STRANDEDNESS: single  
149 (D) TOPOLOGY: linear  
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151 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 8:  
152

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/881,976ADATE: 02/13/2002  
TIME: 21:13:57

INPUT SET: S36760.raw

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161 (C) STRANDEDNESS: single  
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164 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 9:  
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166 Asn Lys Thr Val Glu Gln Leu Gly Gln Glu Glu  
167 1 5 10  
168  
169 (2) INFORMATION FOR SEQ ID NO: 10:  
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171 (i) SEQUENCE CHARACTERISTICS:  
172 (A) LENGTH: 11  
173 (B) TYPE: amino acid  
174 (C) STRANDEDNESS: single  
175 (D) TOPOLOGY: linear  
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177 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 10:  
178  
179 Asp Asp Ile Met Asp Ser Ser Leu Thr Arg Arg  
180 1 5 10  
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182 (2) INFORMATION FOR SEQ ID NO: 11:  
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184 (i) SEQUENCE CHARACTERISTICS:  
185 (A) LENGTH: 11  
186 (B) TYPE: amino acid  
187 (C) STRANDEDNESS: single  
188 (D) TOPOLOGY: linear  
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190 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 11:  
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192 Asp Asp Ile Met Asp Ser Ser Tyr Thr Arg Arg  
193 1 5 10  
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199 (i) SEQUENCE CHARACTERISTICS:  
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201 (B) TYPE: amino acid  
202 (C) STRANDEDNESS: single  
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205 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 12:

RAW SEQUENCE LISTING  
PATENT APPLICATION US/09/881,976ADATE: 02/13/2002  
TIME: 21:13:57

INPUT SET: S36760.raw

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215 (C) STRANDEDNESS: single  
216 (D) TOPOLOGY: linear  
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218 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 13:  
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225 (i) SEQUENCE CHARACTERISTICS:  
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234 1 5 10  
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236 (2) INFORMATION FOR SEQ ID NO: 15:  
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238 (i) SEQUENCE CHARACTERISTICS:  
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240 (B) TYPE: amino acid  
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247 1 5  
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253 (B) TYPE: amino acid  
254 (C) STRANDEDNESS: single  
255 (D) TOPOLOGY: linear  
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257 (xi) SEQUENCE DESCRIPTION: SEQ ID NO: 16:  
258

PAGE: 1

**SEQUENCE VERIFICATION REPORT**  
**PATENT APPLICATION US/09/881,976A**

DATE: 02/13/2002  
TIME: 21:13:58

***INPUT SET: S36760.raw***

Line

Error

Original Text

PAGE: 1

**SEQUENCE MISSING ITEM REPORT**  
**PATENT APPLICATION US/09/881,976A**

DATE: 02/13/2002  
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*INPUT SET: S36760.raw*

< < THERE ARE NO ITEMS MISSING > >

SEQUENCE CORRECTION REPORT  
PATENT APPLICATION US/09/881,976ADATE: 02/13/2002  
TIME: 21:13:58

INPUT SET: S36760.raw

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67	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
78	(2)INFORMATION FOR SEQ ID NO: 3:	(2) INFORMATION FOR SEQ ID NO: 3:
80	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
91	(2)INFORMATION FOR SEQ ID NO: 4:	(2) INFORMATION FOR SEQ ID NO: 4:
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117	(2)INFORMATION FOR SEQ ID NO: 6:	(2) INFORMATION FOR SEQ ID NO: 6:
119	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
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SEQUENCE CORRECTION REPORT  
PATENT APPLICATION US/09/881,976ADATE: 02/13/2002  
TIME: 21:13:58

INPUT SET: S36760.raw

Line	Original Text	Corrected Text
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406	(2)INFORMATION FOR SEQ ID NO: 28:	(2) INFORMATION FOR SEQ ID NO: 28:
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524	(2)INFORMATION FOR SEQ ID NO: 37:	(2) INFORMATION FOR SEQ ID NO: 37:
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SEQUENCE CORRECTION REPORT  
PATENT APPLICATION US/09/881,976ADATE: 02/13/2002  
TIME: 21:13:58

INPUT SET: S36760.raw

Line	Original Text	Corrected Text
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978	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
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SEQUENCE CORRECTION REPORT  
PATENT APPLICATION US/09/881,976ADATE: 02/13/2002  
TIME: 21:13:59

INPUT SET: S36760.raw

Line	Original Text	Corrected Text
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1007	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
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1022	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
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1111	(2)INFORMATION FOR SEQ ID NO: 81:	(2) INFORMATION FOR SEQ ID NO: 81:
1113	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1124	(2)INFORMATION FOR SEQ ID NO: 82:	(2) INFORMATION FOR SEQ ID NO: 82:
1126	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1137	(2)INFORMATION FOR SEQ ID NO: 83:	(2) INFORMATION FOR SEQ ID NO: 83:
1139	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1150	(2)INFORMATION FOR SEQ ID NO: 84:	(2) INFORMATION FOR SEQ ID NO: 84:
1152	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1163	(2)INFORMATION FOR SEQ ID NO: 85:	(2) INFORMATION FOR SEQ ID NO: 85:
1165	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1176	(2)INFORMATION FOR SEQ ID NO: 86:	(2) INFORMATION FOR SEQ ID NO: 86:
1178	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1189	(2)INFORMATION FOR SEQ ID NO: 87:	(2) INFORMATION FOR SEQ ID NO: 87:
1191	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1202	(2)INFORMATION FOR SEQ ID NO: 88:	(2) INFORMATION FOR SEQ ID NO: 88:
1204	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1215	(2)INFORMATION FOR SEQ ID NO: 89:	(2) INFORMATION FOR SEQ ID NO: 89:
1217	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1228	(2)INFORMATION FOR SEQ ID NO: 90:	(2) INFORMATION FOR SEQ ID NO: 90:
1230	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1241	(2)INFORMATION FOR SEQ ID NO: 91:	(2) INFORMATION FOR SEQ ID NO: 91:
1243	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1254	(2)INFORMATION FOR SEQ ID NO: 92:	(2) INFORMATION FOR SEQ ID NO: 92:
1256	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1267	(2)INFORMATION FOR SEQ ID NO: 93:	(2) INFORMATION FOR SEQ ID NO: 93:
1269	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1280	(2)INFORMATION FOR SEQ ID NO: 94:	(2) INFORMATION FOR SEQ ID NO: 94:
1282	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1293	(2)INFORMATION FOR SEQ ID NO: 95:	(2) INFORMATION FOR SEQ ID NO: 95:
1295	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1306	(2)INFORMATION FOR SEQ ID NO: 96:	(2) INFORMATION FOR SEQ ID NO: 96:

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Line	Original Text	Corrected Text
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1321	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1332	(2)INFORMATION FOR SEQ ID NO: 98:	(2) INFORMATION FOR SEQ ID NO: 98:
1334	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1347	(2)INFORMATION FOR SEQ ID NO: 99:	(2) INFORMATION FOR SEQ ID NO: 99:
1349	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1362	(2)INFORMATION FOR SEQ ID NO: 100:	(2) INFORMATION FOR SEQ ID NO: 100:
1364	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1377	(2)INFORMATION FOR SEQ ID NO: 101:	(2) INFORMATION FOR SEQ ID NO: 101:
1379	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1391	(2)INFORMATION FOR SEQ ID NO: 102:	(2) INFORMATION FOR SEQ ID NO: 102:
1393	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1406	(2)INFORMATION FOR SEQ ID NO: 103:	(2) INFORMATION FOR SEQ ID NO: 103:
1408	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1419	(2)INFORMATION FOR SEQ ID NO: 104:	(2) INFORMATION FOR SEQ ID NO: 104:
1421	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1432	(2)INFORMATION FOR SEQ ID NO: 105:	(2) INFORMATION FOR SEQ ID NO: 105:
1434	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1446	(2)INFORMATION FOR SEQ ID NO: 106:	(2) INFORMATION FOR SEQ ID NO: 106:
1448	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1461	(2)INFORMATION FOR SEQ ID NO: 107:	(2) INFORMATION FOR SEQ ID NO: 107:
1463	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1476	(2)INFORMATION FOR SEQ ID NO: 108:	(2) INFORMATION FOR SEQ ID NO: 108:
1478	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1491	(2)INFORMATION FOR SEQ ID NO: 109:	(2) INFORMATION FOR SEQ ID NO: 109:
1493	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1506	(2)INFORMATION FOR SEQ ID NO: 110:	(2) INFORMATION FOR SEQ ID NO: 110:
1508	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1521	(2)INFORMATION FOR SEQ ID NO: 111:	(2) INFORMATION FOR SEQ ID NO: 111:
1523	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1536	(2)INFORMATION FOR SEQ ID NO: 112:	(2) INFORMATION FOR SEQ ID NO: 112:
1538	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1552	(2)INFORMATION FOR SEQ ID NO: 113:	(2) INFORMATION FOR SEQ ID NO: 113:
1554	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1566	(2)INFORMATION FOR SEQ ID NO: 114:	(2) INFORMATION FOR SEQ ID NO: 114:
1568	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1580	(2)INFORMATION FOR SEQ ID NO: 115:	(2) INFORMATION FOR SEQ ID NO: 115:
1582	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1595	(2)INFORMATION FOR SEQ ID NO: 116:	(2) INFORMATION FOR SEQ ID NO: 116:
1597	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1608	(2)INFORMATION FOR SEQ ID NO: 117:	(2) INFORMATION FOR SEQ ID NO: 117:
1610	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1621	(2)INFORMATION FOR SEQ ID NO: 118:	(2) INFORMATION FOR SEQ ID NO: 118:
1623	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1636	(2)INFORMATION FOR SEQ ID NO: 119:	(2) INFORMATION FOR SEQ ID NO: 119:
1638	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1649	(2)INFORMATION FOR SEQ ID NO: 120:	(2) INFORMATION FOR SEQ ID NO: 120:

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Line	Original Text	Corrected Text
1651	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1664	(2)INFORMATION FOR SEQ ID NO: 121:	(2) INFORMATION FOR SEQ ID NO: 121:
1666	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1677	(2)INFORMATION FOR SEQ ID NO: 122:	(2) INFORMATION FOR SEQ ID NO: 122:
1679	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1692	(2)INFORMATION FOR SEQ ID NO: 123:	(2) INFORMATION FOR SEQ ID NO: 123:
1694	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1706	(2)INFORMATION FOR SEQ ID NO: 124:	(2) INFORMATION FOR SEQ ID NO: 124:
1708	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1720	(2)INFORMATION FOR SEQ ID NO: 125:	(2) INFORMATION FOR SEQ ID NO: 125:
1722	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1733	(2)INFORMATION FOR SEQ ID NO: 126:	(2) INFORMATION FOR SEQ ID NO: 126:
1735	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1746	(2)INFORMATION FOR SEQ ID NO: 127:	(2) INFORMATION FOR SEQ ID NO: 127:
1748	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1761	(2)INFORMATION FOR SEQ ID NO: 128:	(2) INFORMATION FOR SEQ ID NO: 128:
1763	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1774	(2)INFORMATION FOR SEQ ID NO: 129:	(2) INFORMATION FOR SEQ ID NO: 129:
1776	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1787	(2)INFORMATION FOR SEQ ID NO: 130:	(2) INFORMATION FOR SEQ ID NO: 130:
1789	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1800	(2)INFORMATION FOR SEQ ID NO: 131:	(2) INFORMATION FOR SEQ ID NO: 131:
1802	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1813	(2)INFORMATION FOR SEQ ID NO: 132:	(2) INFORMATION FOR SEQ ID NO: 132:
1815	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1827	(2)INFORMATION FOR SEQ ID NO: 133:	(2) INFORMATION FOR SEQ ID NO: 133:
1829	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1840	(2)INFORMATION FOR SEQ ID NO: 134:	(2) INFORMATION FOR SEQ ID NO: 134:
1842	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1853	(2)INFORMATION FOR SEQ ID NO: 135:	(2) INFORMATION FOR SEQ ID NO: 135:
1855	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1866	(2)INFORMATION FOR SEQ ID NO: 136:	(2) INFORMATION FOR SEQ ID NO: 136:
1868	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1879	(2)INFORMATION FOR SEQ ID NO: 137:	(2) INFORMATION FOR SEQ ID NO: 137:
1881	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1892	(2)INFORMATION FOR SEQ ID NO: 138:	(2) INFORMATION FOR SEQ ID NO: 138:
1894	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1905	(2)INFORMATION FOR SEQ ID NO: 139:	(2) INFORMATION FOR SEQ ID NO: 139:
1907	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1918	(2)INFORMATION FOR SEQ ID NO: 140:	(2) INFORMATION FOR SEQ ID NO: 140:
1920	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1931	(2)INFORMATION FOR SEQ ID NO: 141:	(2) INFORMATION FOR SEQ ID NO: 141:
1933	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1944	(2)INFORMATION FOR SEQ ID NO: 142:	(2) INFORMATION FOR SEQ ID NO: 142:
1946	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1957	(2)INFORMATION FOR SEQ ID NO: 143:	(2) INFORMATION FOR SEQ ID NO: 143:
1959	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1970	(2)INFORMATION FOR SEQ ID NO: 144:	(2) INFORMATION FOR SEQ ID NO: 144:

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Line	Original Text	Corrected Text
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1984	(2)INFORMATION FOR SEQ ID NO: 145:	(2) INFORMATION FOR SEQ ID NO: 145:
1986	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
1997	(2)INFORMATION FOR SEQ ID NO: 146:	(2) INFORMATION FOR SEQ ID NO: 146:
1999	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2010	(2)INFORMATION FOR SEQ ID NO: 147:	(2) INFORMATION FOR SEQ ID NO: 147:
2012	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2023	(2)INFORMATION FOR SEQ ID NO: 148:	(2) INFORMATION FOR SEQ ID NO: 148:
2025	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2036	(2)INFORMATION FOR SEQ ID NO: 149:	(2) INFORMATION FOR SEQ ID NO: 149:
2038	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2049	(2)INFORMATION FOR SEQ ID NO: 150:	(2) INFORMATION FOR SEQ ID NO: 150:
2051	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2062	(2)INFORMATION FOR SEQ ID NO: 151:	(2) INFORMATION FOR SEQ ID NO: 151:
2064	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2075	(2)INFORMATION FOR SEQ ID NO: 152:	(2) INFORMATION FOR SEQ ID NO: 152:
2077	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2088	(2)INFORMATION FOR SEQ ID NO: 153:	(2) INFORMATION FOR SEQ ID NO: 153:
2090	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2101	(2)INFORMATION FOR SEQ ID NO: 154:	(2) INFORMATION FOR SEQ ID NO: 154:
2103	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2114	(2)INFORMATION FOR SEQ ID NO: 155:	(2) INFORMATION FOR SEQ ID NO: 155:
2116	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2127	(2)INFORMATION FOR SEQ ID NO: 156:	(2) INFORMATION FOR SEQ ID NO: 156:
2129	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2140	(2)INFORMATION FOR SEQ ID NO: 157:	(2) INFORMATION FOR SEQ ID NO: 157:
2142	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2153	(2)INFORMATION FOR SEQ ID NO: 158:	(2) INFORMATION FOR SEQ ID NO: 158:
2155	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2166	(2)INFORMATION FOR SEQ ID NO: 159:	(2) INFORMATION FOR SEQ ID NO: 159:
2168	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2179	(2)INFORMATION FOR SEQ ID NO: 160:	(2) INFORMATION FOR SEQ ID NO: 160:
2181	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2192	(2)INFORMATION FOR SEQ ID NO: 161:	(2) INFORMATION FOR SEQ ID NO: 161:
2194	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2205	(2)INFORMATION FOR SEQ ID NO: 162:	(2) INFORMATION FOR SEQ ID NO: 162:
2207	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2218	(2)INFORMATION FOR SEQ ID NO: 163:	(2) INFORMATION FOR SEQ ID NO: 163:
2220	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2231	(2)INFORMATION FOR SEQ ID NO: 164:	(2) INFORMATION FOR SEQ ID NO: 164:
2233	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2244	(2)INFORMATION FOR SEQ ID NO: 165:	(2) INFORMATION FOR SEQ ID NO: 165:
2246	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2257	(2)INFORMATION FOR SEQ ID NO: 166:	(2) INFORMATION FOR SEQ ID NO: 166:
2259	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2270	(2)INFORMATION FOR SEQ ID NO: 167:	(2) INFORMATION FOR SEQ ID NO: 167:
2272	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2283	(2)INFORMATION FOR SEQ ID NO: 168:	(2) INFORMATION FOR SEQ ID NO: 168:

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Line	Original Text	Corrected Text
2285	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2296	(2)INFORMATION FOR SEQ ID NO: 169:	(2) INFORMATION FOR SEQ ID NO: 169:
2298	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2309	(2)INFORMATION FOR SEQ ID NO: 170:	(2) INFORMATION FOR SEQ ID NO: 170:
2311	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2322	(2)INFORMATION FOR SEQ ID NO: 171:	(2) INFORMATION FOR SEQ ID NO: 171:
2324	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2335	(2)INFORMATION FOR SEQ ID NO: 172:	(2) INFORMATION FOR SEQ ID NO: 172:
2337	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2349	(2)INFORMATION FOR SEQ ID NO: 173:	(2) INFORMATION FOR SEQ ID NO: 173:
2351	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2362	(2)INFORMATION FOR SEQ ID NO: 174:	(2) INFORMATION FOR SEQ ID NO: 174:
2364	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2376	(2)INFORMATION FOR SEQ ID NO: 175:	(2) INFORMATION FOR SEQ ID NO: 175:
2378	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2389	(2)INFORMATION FOR SEQ ID NO: 176:	(2) INFORMATION FOR SEQ ID NO: 176:
2391	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2402	(2)INFORMATION FOR SEQ ID NO: 177:	(2) INFORMATION FOR SEQ ID NO: 177:
2404	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2415	(2)INFORMATION FOR SEQ ID NO: 178:	(2) INFORMATION FOR SEQ ID NO: 178:
2417	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2428	(2)INFORMATION FOR SEQ ID NO: 179:	(2) INFORMATION FOR SEQ ID NO: 179:
2430	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2441	(2)INFORMATION FOR SEQ ID NO: 180:	(2) INFORMATION FOR SEQ ID NO: 180:
2443	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2454	(2)INFORMATION FOR SEQ ID NO: 181:	(2) INFORMATION FOR SEQ ID NO: 181:
2456	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2467	(2)INFORMATION FOR SEQ ID NO: 182:	(2) INFORMATION FOR SEQ ID NO: 182:
2469	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2480	(2)INFORMATION FOR SEQ ID NO: 183:	(2) INFORMATION FOR SEQ ID NO: 183:
2482	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2493	(2)INFORMATION FOR SEQ ID NO: 184:	(2) INFORMATION FOR SEQ ID NO: 184:
2495	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2506	(2)INFORMATION FOR SEQ ID NO: 185:	(2) INFORMATION FOR SEQ ID NO: 185:
2508	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2519	(2)INFORMATION FOR SEQ ID NO: 186:	(2) INFORMATION FOR SEQ ID NO: 186:
2521	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2532	(2)INFORMATION FOR SEQ ID NO: 187:	(2) INFORMATION FOR SEQ ID NO: 187:
2534	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2545	(2)INFORMATION FOR SEQ ID NO: 188:	(2) INFORMATION FOR SEQ ID NO: 188:
2547	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2558	(2)INFORMATION FOR SEQ ID NO: 189:	(2) INFORMATION FOR SEQ ID NO: 189:
2560	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2571	(2)INFORMATION FOR SEQ ID NO: 190:	(2) INFORMATION FOR SEQ ID NO: 190:
2573	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2584	(2)INFORMATION FOR SEQ ID NO: 191:	(2) INFORMATION FOR SEQ ID NO: 191:
2586	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2597	(2)INFORMATION FOR SEQ ID NO: 192:	(2) INFORMATION FOR SEQ ID NO: 192:

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Line	Original Text	Corrected Text
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2612	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2623	(2)INFORMATION FOR SEQ ID NO: 194:	(2) INFORMATION FOR SEQ ID NO: 194:
2625	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2636	(2)INFORMATION FOR SEQ ID NO: 195:	(2) INFORMATION FOR SEQ ID NO: 195:
2638	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2649	(2)INFORMATION FOR SEQ ID NO: 196:	(2) INFORMATION FOR SEQ ID NO: 196:
2651	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2663	(2)INFORMATION FOR SEQ ID NO: 197:	(2) INFORMATION FOR SEQ ID NO: 197:
2665	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2677	(2)INFORMATION FOR SEQ ID NO: 198:	(2) INFORMATION FOR SEQ ID NO: 198:
2679	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2690	(2)INFORMATION FOR SEQ ID NO: 199:	(2) INFORMATION FOR SEQ ID NO: 199:
2692	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2703	(2)INFORMATION FOR SEQ ID NO: 200:	(2) INFORMATION FOR SEQ ID NO: 200:
2705	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2716	(2)INFORMATION FOR SEQ ID NO: 201:	(2) INFORMATION FOR SEQ ID NO: 201:
2718	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2729	(2)INFORMATION FOR SEQ ID NO: 202:	(2) INFORMATION FOR SEQ ID NO: 202:
2731	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2742	(2)INFORMATION FOR SEQ ID NO: 203:	(2) INFORMATION FOR SEQ ID NO: 203:
2744	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2755	(2)INFORMATION FOR SEQ ID NO: 204:	(2) INFORMATION FOR SEQ ID NO: 204:
2757	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2768	(2)INFORMATION FOR SEQ ID NO: 205:	(2) INFORMATION FOR SEQ ID NO: 205:
2770	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2781	(2)INFORMATION FOR SEQ ID NO: 206:	(2) INFORMATION FOR SEQ ID NO: 206:
2783	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2794	(2)INFORMATION FOR SEQ ID NO: 207:	(2) INFORMATION FOR SEQ ID NO: 207:
2796	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2807	(2)INFORMATION FOR SEQ ID NO: 208:	(2) INFORMATION FOR SEQ ID NO: 208:
2809	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2820	(2)INFORMATION FOR SEQ ID NO: 209:	(2) INFORMATION FOR SEQ ID NO: 209:
2822	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2833	(2)INFORMATION FOR SEQ ID NO: 210:	(2) INFORMATION FOR SEQ ID NO: 210:
2835	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2846	(2)INFORMATION FOR SEQ ID NO: 211:	(2) INFORMATION FOR SEQ ID NO: 211:
2848	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2859	(2)INFORMATION FOR SEQ ID NO: 212:	(2) INFORMATION FOR SEQ ID NO: 212:
2861	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2872	(2)INFORMATION FOR SEQ ID NO: 213:	(2) INFORMATION FOR SEQ ID NO: 213:
2874	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2885	(2)INFORMATION FOR SEQ ID NO: 214:	(2) INFORMATION FOR SEQ ID NO: 214:
2887	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2898	(2)INFORMATION FOR SEQ ID NO: 215:	(2) INFORMATION FOR SEQ ID NO: 215:
2900	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2911	(2)INFORMATION FOR SEQ ID NO: 216:	(2) INFORMATION FOR SEQ ID NO: 216:



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Line	Original Text	Corrected Text
2913	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2924	(2)INFORMATION FOR SEQ ID NO: 217:	(2) INFORMATION FOR SEQ ID NO: 217:
2926	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2937	(2)INFORMATION FOR SEQ ID NO: 218:	(2) INFORMATION FOR SEQ ID NO: 218:
2939	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2950	(2)INFORMATION FOR SEQ ID NO: 219:	(2) INFORMATION FOR SEQ ID NO: 219:
2952	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2963	(2)INFORMATION FOR SEQ ID NO: 220:	(2) INFORMATION FOR SEQ ID NO: 220:
2965	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2976	(2)INFORMATION FOR SEQ ID NO: 221:	(2) INFORMATION FOR SEQ ID NO: 221:
2978	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
2991	(2)INFORMATION FOR SEQ ID NO: 222:	(2) INFORMATION FOR SEQ ID NO: 222:
2993	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3004	(2)INFORMATION FOR SEQ ID NO: 223:	(2) INFORMATION FOR SEQ ID NO: 223:
3006	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3017	(2)INFORMATION FOR SEQ ID NO: 224:	(2) INFORMATION FOR SEQ ID NO: 224:
3019	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3030	(2)INFORMATION FOR SEQ ID NO: 225:	(2) INFORMATION FOR SEQ ID NO: 225:
3032	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3043	(2)INFORMATION FOR SEQ ID NO: 226:	(2) INFORMATION FOR SEQ ID NO: 226:
3045	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3056	(2)INFORMATION FOR SEQ ID NO: 227:	(2) INFORMATION FOR SEQ ID NO: 227:
3058	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3069	(2)INFORMATION FOR SEQ ID NO: 228:	(2) INFORMATION FOR SEQ ID NO: 228:
3071	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3082	(2)INFORMATION FOR SEQ ID NO: 229:	(2) INFORMATION FOR SEQ ID NO: 229:
3084	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3095	(2)INFORMATION FOR SEQ ID NO: 230:	(2) INFORMATION FOR SEQ ID NO: 230:
3097	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3108	(2)INFORMATION FOR SEQ ID NO: 231:	(2) INFORMATION FOR SEQ ID NO: 231:
3110	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3121	(2)INFORMATION FOR SEQ ID NO: 232:	(2) INFORMATION FOR SEQ ID NO: 232:
3123	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3134	(2)INFORMATION FOR SEQ ID NO: 233:	(2) INFORMATION FOR SEQ ID NO: 233:
3136	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3147	(2)INFORMATION FOR SEQ ID NO: 234:	(2) INFORMATION FOR SEQ ID NO: 234:
3149	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3160	(2)INFORMATION FOR SEQ ID NO: 235:	(2) INFORMATION FOR SEQ ID NO: 235:
3162	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3173	(2)INFORMATION FOR SEQ ID NO: 236:	(2) INFORMATION FOR SEQ ID NO: 236:
3175	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3186	(2)INFORMATION FOR SEQ ID NO: 237:	(2) INFORMATION FOR SEQ ID NO: 237:
3188	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3199	(2)INFORMATION FOR SEQ ID NO: 238:	(2) INFORMATION FOR SEQ ID NO: 238:
3201	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3213	(2)INFORMATION FOR SEQ ID NO: 239:	(2) INFORMATION FOR SEQ ID NO: 239:
3215	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3228	(2)INFORMATION FOR SEQ ID NO: 240:	(2) INFORMATION FOR SEQ ID NO: 240:

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Line	Original Text	Corrected Text
3230	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3241	(2)INFORMATION FOR SEQ ID NO: 241:	(2) INFORMATION FOR SEQ ID NO: 241:
3243	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3254	(2)INFORMATION FOR SEQ ID NO: 242:	(2) INFORMATION FOR SEQ ID NO: 242:
3256	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3269	(2)INFORMATION FOR SEQ ID NO: 243:	(2) INFORMATION FOR SEQ ID NO: 243:
3271	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3282	(2)INFORMATION FOR SEQ ID NO: 244:	(2) INFORMATION FOR SEQ ID NO: 244:
3284	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3297	(2)INFORMATION FOR SEQ ID NO: 245:	(2) INFORMATION FOR SEQ ID NO: 245:
3299	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3310	(2)INFORMATION FOR SEQ ID NO: 246:	(2) INFORMATION FOR SEQ ID NO: 246:
3312	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3323	(2)INFORMATION FOR SEQ ID NO: 247:	(2) INFORMATION FOR SEQ ID NO: 247:
3325	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3336	(2)INFORMATION FOR SEQ ID NO: 248:	(2) INFORMATION FOR SEQ ID NO: 248:
3338	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3349	(2)INFORMATION FOR SEQ ID NO: 249:	(2) INFORMATION FOR SEQ ID NO: 249:
3351	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3362	(2)INFORMATION FOR SEQ ID NO: 250:	(2) INFORMATION FOR SEQ ID NO: 250:
3364	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3375	(2)INFORMATION FOR SEQ ID NO: 251:	(2) INFORMATION FOR SEQ ID NO: 251:
3377	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3390	(2)INFORMATION FOR SEQ ID NO: 252:	(2) INFORMATION FOR SEQ ID NO: 252:
3392	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3403	(2)INFORMATION FOR SEQ ID NO: 253:	(2) INFORMATION FOR SEQ ID NO: 253:
3405	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3416	(2)INFORMATION FOR SEQ ID NO: 254:	(2) INFORMATION FOR SEQ ID NO: 254:
3418	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3429	(2)INFORMATION FOR SEQ ID NO: 255:	(2) INFORMATION FOR SEQ ID NO: 255:
3431	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3442	(2)INFORMATION FOR SEQ ID NO: 256:	(2) INFORMATION FOR SEQ ID NO: 256:
3444	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3455	(2)INFORMATION FOR SEQ ID NO: 257:	(2) INFORMATION FOR SEQ ID NO: 257:
3457	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3468	(2)INFORMATION FOR SEQ ID NO: 258:	(2) INFORMATION FOR SEQ ID NO: 258:
3470	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3481	(2)INFORMATION FOR SEQ ID NO: 259:	(2) INFORMATION FOR SEQ ID NO: 259:
3483	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3494	(2)INFORMATION FOR SEQ ID NO: 260:	(2) INFORMATION FOR SEQ ID NO: 260:
3496	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3507	(2)INFORMATION FOR SEQ ID NO: 261:	(2) INFORMATION FOR SEQ ID NO: 261:
3509	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3521	(2)INFORMATION FOR SEQ ID NO: 262:	(2) INFORMATION FOR SEQ ID NO: 262:
3523	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3536	(2)INFORMATION FOR SEQ ID NO: 263:	(2) INFORMATION FOR SEQ ID NO: 263:
3538	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3549	(2)INFORMATION FOR SEQ ID NO: 264:	(2) INFORMATION FOR SEQ ID NO: 264:

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Line	Original Text	Corrected Text
3551	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3562	(2)INFORMATION FOR SEQ ID NO: 265:	(2) INFORMATION FOR SEQ ID NO: 265:
3564	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3575	(2)INFORMATION FOR SEQ ID NO: 266:	(2) INFORMATION FOR SEQ ID NO: 266:
3577	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3588	(2)INFORMATION FOR SEQ ID NO: 267:	(2) INFORMATION FOR SEQ ID NO: 267:
3590	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3602	(2)INFORMATION FOR SEQ ID NO: 268:	(2) INFORMATION FOR SEQ ID NO: 268:
3604	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3615	(2)INFORMATION FOR SEQ ID NO: 269:	(2) INFORMATION FOR SEQ ID NO: 269:
3617	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3629	(2)INFORMATION FOR SEQ ID NO: 270:	(2) INFORMATION FOR SEQ ID NO: 270:
3631	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3642	(2)INFORMATION FOR SEQ ID NO: 271:	(2) INFORMATION FOR SEQ ID NO: 271:
3644	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3655	(2)INFORMATION FOR SEQ ID NO: 272:	(2) INFORMATION FOR SEQ ID NO: 272:
3657	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3668	(2)INFORMATION FOR SEQ ID NO: 273:	(2) INFORMATION FOR SEQ ID NO: 273:
3670	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3681	(2)INFORMATION FOR SEQ ID NO: 274:	(2) INFORMATION FOR SEQ ID NO: 274:
3683	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3694	(2)INFORMATION FOR SEQ ID NO: 275:	(2) INFORMATION FOR SEQ ID NO: 275:
3696	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3707	(2)INFORMATION FOR SEQ ID NO: 276:	(2) INFORMATION FOR SEQ ID NO: 276:
3709	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3720	(2)INFORMATION FOR SEQ ID NO: 277:	(2) INFORMATION FOR SEQ ID NO: 277:
3722	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3733	(2)INFORMATION FOR SEQ ID NO: 278:	(2) INFORMATION FOR SEQ ID NO: 278:
3735	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3746	(2)INFORMATION FOR SEQ ID NO: 279:	(2) INFORMATION FOR SEQ ID NO: 279:
3748	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3759	(2)INFORMATION FOR SEQ ID NO: 280:	(2) INFORMATION FOR SEQ ID NO: 280:
3761	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3773	(2)INFORMATION FOR SEQ ID NO: 281:	(2) INFORMATION FOR SEQ ID NO: 281:
3775	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3786	(2)INFORMATION FOR SEQ ID NO: 282:	(2) INFORMATION FOR SEQ ID NO: 282:
3788	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3799	(2)INFORMATION FOR SEQ ID NO: 283:	(2) INFORMATION FOR SEQ ID NO: 283:
3801	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3812	(2)INFORMATION FOR SEQ ID NO: 284:	(2) INFORMATION FOR SEQ ID NO: 284:
3814	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3825	(2)INFORMATION FOR SEQ ID NO: 285:	(2) INFORMATION FOR SEQ ID NO: 285:
3827	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3838	(2)INFORMATION FOR SEQ ID NO: 286:	(2) INFORMATION FOR SEQ ID NO: 286:
3840	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3853	(2)INFORMATION FOR SEQ ID NO: 287:	(2) INFORMATION FOR SEQ ID NO: 287:
3855	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3867	(2)INFORMATION FOR SEQ ID NO: 288:	(2) INFORMATION FOR SEQ ID NO: 288:

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Line	Original Text	Corrected Text
3869	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3882	(2)INFORMATION FOR SEQ ID NO: 289:	(2) INFORMATION FOR SEQ ID NO: 289:
3884	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3895	(2)INFORMATION FOR SEQ ID NO: 290:	(2) INFORMATION FOR SEQ ID NO: 290:
3897	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3909	(2)INFORMATION FOR SEQ ID NO: 291:	(2) INFORMATION FOR SEQ ID NO: 291:
3911	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3922	(2)INFORMATION FOR SEQ ID NO: 292:	(2) INFORMATION FOR SEQ ID NO: 292:
3924	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3935	(2)INFORMATION FOR SEQ ID NO: 293:	(2) INFORMATION FOR SEQ ID NO: 293:
3937	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3948	(2)INFORMATION FOR SEQ ID NO: 294:	(2) INFORMATION FOR SEQ ID NO: 294:
3950	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3961	(2)INFORMATION FOR SEQ ID NO: 295:	(2) INFORMATION FOR SEQ ID NO: 295:
3963	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3975	(2)INFORMATION FOR SEQ ID NO: 296:	(2) INFORMATION FOR SEQ ID NO: 296:
3977	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
3988	(2)INFORMATION FOR SEQ ID NO: 297:	(2) INFORMATION FOR SEQ ID NO: 297:
3990	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4001	(2)INFORMATION FOR SEQ ID NO: 298:	(2) INFORMATION FOR SEQ ID NO: 298:
4003	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4014	(2)INFORMATION FOR SEQ ID NO: 299:	(2) INFORMATION FOR SEQ ID NO: 299:
4016	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4028	(2)INFORMATION FOR SEQ ID NO: 300:	(2) INFORMATION FOR SEQ ID NO: 300:
4030	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4041	(2)INFORMATION FOR SEQ ID NO: 301:	(2) INFORMATION FOR SEQ ID NO: 301:
4043	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4054	(2)INFORMATION FOR SEQ ID NO: 302:	(2) INFORMATION FOR SEQ ID NO: 302:
4056	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4067	(2)INFORMATION FOR SEQ ID NO: 303:	(2) INFORMATION FOR SEQ ID NO: 303:
4069	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4080	(2)INFORMATION FOR SEQ ID NO: 304:	(2) INFORMATION FOR SEQ ID NO: 304:
4082	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4094	(2)INFORMATION FOR SEQ ID NO: 305:	(2) INFORMATION FOR SEQ ID NO: 305:
4096	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4107	(2)INFORMATION FOR SEQ ID NO: 306:	(2) INFORMATION FOR SEQ ID NO: 306:
4109	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4121	(2)INFORMATION FOR SEQ ID NO: 307:	(2) INFORMATION FOR SEQ ID NO: 307:
4123	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4134	(2)INFORMATION FOR SEQ ID NO: 308:	(2) INFORMATION FOR SEQ ID NO: 308:
4136	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4147	(2)INFORMATION FOR SEQ ID NO: 309:	(2) INFORMATION FOR SEQ ID NO: 309:
4149	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4160	(2)INFORMATION FOR SEQ ID NO: 310:	(2) INFORMATION FOR SEQ ID NO: 310:
4162	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4173	(2)INFORMATION FOR SEQ ID NO: 311:	(2) INFORMATION FOR SEQ ID NO: 311:
4175	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4187	(2)INFORMATION FOR SEQ ID NO: 312:	(2) INFORMATION FOR SEQ ID NO: 312:

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Line	Original Text	Corrected Text
4189	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4203	(2)INFORMATION FOR SEQ ID NO: 313:	(2) INFORMATION FOR SEQ ID NO: 313:
4205	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4217	(2)INFORMATION FOR SEQ ID NO: 314:	(2) INFORMATION FOR SEQ ID NO: 314:
4219	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4231	(2)INFORMATION FOR SEQ ID NO: 315:	(2) INFORMATION FOR SEQ ID NO: 315:
4233	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4246	(2)INFORMATION FOR SEQ ID NO: 316:	(2) INFORMATION FOR SEQ ID NO: 316:
4248	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4261	(2)INFORMATION FOR SEQ ID NO: 317:	(2) INFORMATION FOR SEQ ID NO: 317:
4263	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4275	(2)INFORMATION FOR SEQ ID NO: 318:	(2) INFORMATION FOR SEQ ID NO: 318:
4277	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4290	(2)INFORMATION FOR SEQ ID NO: 319:	(2) INFORMATION FOR SEQ ID NO: 319:
4292	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4303	(2)INFORMATION FOR SEQ ID NO: 320:	(2) INFORMATION FOR SEQ ID NO: 320:
4305	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4316	(2)INFORMATION FOR SEQ ID NO: 321:	(2) INFORMATION FOR SEQ ID NO: 321:
4318	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4329	(2)INFORMATION FOR SEQ ID NO: 322:	(2) INFORMATION FOR SEQ ID NO: 322:
4331	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4343	(2)INFORMATION FOR SEQ ID NO: 323:	(2) INFORMATION FOR SEQ ID NO: 323:
4345	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4356	(2)INFORMATION FOR SEQ ID NO: 324:	(2) INFORMATION FOR SEQ ID NO: 324:
4358	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4369	(2)INFORMATION FOR SEQ ID NO: 325:	(2) INFORMATION FOR SEQ ID NO: 325:
4371	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4383	(2)INFORMATION FOR SEQ ID NO: 326:	(2) INFORMATION FOR SEQ ID NO: 326:
4385	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4397	(2)INFORMATION FOR SEQ ID NO: 327:	(2) INFORMATION FOR SEQ ID NO: 327:
4399	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4411	(2)INFORMATION FOR SEQ ID NO: 328:	(2) INFORMATION FOR SEQ ID NO: 328:
4413	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4426	(2)INFORMATION FOR SEQ ID NO: 329:	(2) INFORMATION FOR SEQ ID NO: 329:
4428	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4439	(2)INFORMATION FOR SEQ ID NO: 330:	(2) INFORMATION FOR SEQ ID NO: 330:
4441	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4452	(2)INFORMATION FOR SEQ ID NO: 331:	(2) INFORMATION FOR SEQ ID NO: 331:
4454	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4465	(2)INFORMATION FOR SEQ ID NO: 332:	(2) INFORMATION FOR SEQ ID NO: 332:
4467	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4478	(2)INFORMATION FOR SEQ ID NO: 333:	(2) INFORMATION FOR SEQ ID NO: 333:
4480	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4491	(2)INFORMATION FOR SEQ ID NO: 334:	(2) INFORMATION FOR SEQ ID NO: 334:
4493	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4505	(2)INFORMATION FOR SEQ ID NO: 335:	(2) INFORMATION FOR SEQ ID NO: 335:
4507	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4519	(2)INFORMATION FOR SEQ ID NO: 336:	(2) INFORMATION FOR SEQ ID NO: 336:

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Line	Original Text	Corrected Text
4521	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4533	(2)INFORMATION FOR SEQ ID NO: 337:	(2) INFORMATION FOR SEQ ID NO: 337:
4535	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4548	(2)INFORMATION FOR SEQ ID NO: 338:	(2) INFORMATION FOR SEQ ID NO: 338:
4550	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4563	(2)INFORMATION FOR SEQ ID NO: 339:	(2) INFORMATION FOR SEQ ID NO: 339:
4565	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4576	(2)INFORMATION FOR SEQ ID NO: 340:	(2) INFORMATION FOR SEQ ID NO: 340:
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4811	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
4822	(2)INFORMATION FOR SEQ ID NO: 358:	(2) INFORMATION FOR SEQ ID NO: 358:
4824	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
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4837	(i)SEQUENCE CHARACTERISTICS	(i) SEQUENCE CHARACTERISTICS:
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**SEQUENCE CORRECTION REPORT**  
**PATENT APPLICATION US/09/881,976A**

DATE: 02/13/2002  
TIME: 21:14:02

***INPUT SET: S36760.raw***

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